

MPM2D

Lesson 3 - Worksheet

Complex Trinomials Worksheet

NAME: _____

Factoring Quadratic Expressions

DATE: _____

Show all work neatly. Clearly identify the final answer.

Factor each of the following completely (Remember to look for greatest common factor):

1. $2x^2 + 3x + 1$	2. $3y^2 - 22y + 7$	3. $4x^2 - 5x - 6$
4. $4x^2 - 20x + 25$	5. $12x^2 + 32x + 21$	6. $14d^2 - 3d - 5$
7. $25v^2 + 5v - 2$	8. $24s^2 - 38s + 15$	9. $2a^2 + a - 6$
10. $4c^2 - 16c + 15$	11. $6m^2 - 11m - 10$	12. $10x^2 + xy - 3y^2$

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Factor each of the following completely (Remember to look for greatest common factor):

13. $x^2 + 8x + 16$	14. $3x^2 + 7x + 2$	15. $9m^2 + 62m - 7$
16. $x^2 - 2x - 24$	17. $x^2 - x - 30$	18. $3v^2 + 9v - 30$
19. $10z(z-1) + 3(z-1)$ $(z-1)(10z+3)$	20. $2s^2 + 4s - 6$	21. $4a^2 + 12a - 16$
22. $5c^2 - 25c - 30$	23. $x^2 - 7xy + 12y^2$ $x^2 - 3xy - 4xy + 12y^2$ $x(x-3y) - 4y(x-3y)$ $(x-3y)(x-4y)$	24. $6y^2 + 11y + 4$ $\begin{array}{r l} 4 & 11 \\ \hline 3 & 4 \end{array}$ $\begin{array}{r} 3y+4 \\ 2y+1 \end{array}$ $(3y+4)(2y+1)$